



Indiana Department of Environmental Management  
Office of Air Management  
**Rule Fact Sheet**  
April 13, 2000

**Development of Amendments to a Rule Concerning Particulate Matter Emission at  
Cerestar, USA, Incorporated in Lake County  
#98-271(APCB)**

**Overview**

This rulemaking amends the particulate matter emission limitations for Cerestar USA, Incorporated, located in Lake County. The final rule will be submitted to U. S. EPA as an amendment to the state implementation plan.

**Citations Affected**

Amends 326 IAC 6-1-10.1

**Affected Persons**

Cerestar USA, Incorporated located in Lake County and persons in the vicinity of the facility.

**Potential Cost**

This rulemaking change will cause no additional cost to the state or the regulated community.

**Description**

Cerestar USA, Incorporated, 1100 Indianapolis Boulevard, Hammond, Indiana, is a corn processing plant that produces starches, corn syrups, and animal feed. This facility is subject to limits on its emissions of particulate matter with an aerodynamic diameter of less than ten (10) microns ( $PM_{10}$ ). These limits are listed in the state implementation plan. Cerestar USA, Incorporated, has requested that IDEM revise the particulate emission limits contained in 326 IAC 6-1-10.1. There are

seventy-two (72) emission points contained in the rule. The plant modernization occurring at the site will eliminate eighteen (18) emission points and add thirty-nine (39) new ones. The company also wishes to revise the way the short term emission limit is expressed (from pounds of particulate per ton of product to grains per dry standard cubic foot), add identification numbers for each emission unit, increase emissions for some units and lower emissions for other units with a net decrease of forty-eight (48) tons per year of particulate emissions. The revision of the emission limit from pounds per ton to grains per dry standard cubic foot is requested because the product may be wetter, and therefore heavier, at different times. This changes the volume of product to be processed and makes grains per dry standard cubic foot a more accurate way to track emissions. This revision is consistent with new emission limits established for other similar companies in the state.

A revision of the  $PM_{10}$  limits requires air quality modeling to be performed. The modeling is required to demonstrate that the revision to the particulate emission limitation included under 326 IAC 6-1-10.1 will not violate or allow a violation of the National Ambient Air Quality Standards (NAAQS). IDEM staff have reviewed the modeling documentation prepared by Dames & Moore of Rolling Meadows, Illinois, and

performed additional modeling. The modeled concentrations meet the 24-hour and annual  $\text{PM}_{10}$  NAAQS. The original modeling documentation, IDEM's modeling, and a technical support document have been sent to U. S. EPA Region V for their review and comment.

Before August 1998, there were three monitors for PM in the Hammond area. Due to consistently low measurements, two of those monitors were discontinued. The annual averages for the remaining monitor were  $23 \text{ ug/m}^3$  in 1998 and  $19 \text{ ug/m}^3$  in 1999. The annual standard is  $50 \text{ ug/m}^3$ .

#### **Consideration of Factors Outlined in Indiana Code 13-14-8-4**

Indiana Code 13-14-8-4 requires that in adopting rules and establishing standards, the board shall take into account the following:

- 1) All existing physical conditions and the character of the area affected.
- 2) Past, present, and probable future uses of the area, including the character of the uses of surrounding areas.
- 3) Zoning classifications.

4) The nature of the existing air quality or existing water quality, as appropriate.

5) Technical feasibility, including the quality conditions that could be reasonably be achieved through coordinated control of all factors affecting the quality.

6) Economic reasonableness of measuring or reducing any particular type of pollution.

7) The right of all persons to an environment sufficiently uncontaminated as not to be injurious to:

- (A) human, plant animal, or aquatic life; or
- (B) the reasonable enjoyment of life and property.

#### **Consistency with Federal Requirements**

The amended rule is consistent with federal laws and rules.

#### **IDEM Contact**

Additional information regarding this rulemaking action can be obtained by calling (800) 451-6027 (in Indiana), press 0, and ask for Jean Beauchamp, Rule Development Section, Office of Air Management, (or extension 2-8424) or dial (317) 232-8424.